CONTENTS INDEX: DECEMBER 6, 1985 THROUGH JUNE 1, 1986

DECEMBER 6, 1985
VOLUME 56 • NUMBER 16

A SYMPOSIUM: ROLE OF CALCIUM ENTRY-BLOCKING DRUGS IN HYPERTENSION

DECEMBER 27, 1985
VOLUME 56 • NUMBER 17

A SYMPOSIUM: TRANSDERMAL NITROGLYCERIN—MAXIMIZING THERAPEUTIC EFFICACY

DECEMBER 31, 1985
VOLUME 56 • NUMBER 18

A SYMPOSIUM: LABORATORY LIPID VALUES

JANUARY 1, 1986
VOLUME 57 • NUMBER 1

CORONARY HEART DISEASE

1
Nitroglycerin Lingual Spray: Clinical Efficacy and Dose-Response Relation.
John O. Parker, Karen A. Vankoughnett, and Bernice Farrell

6
Efficacy and Safety of Sustained-Release Diltiazem in Stable Angina Pectoris.
Donald A. Weiner, Sally S. Cutler, and Michael D. Klein

10
Effects of Diltiazem During Tachycardia-Induced Angina Pectoris.
Michel Joyal, Karl Cremer, John Pieper, Robert L. Feldman, and Carl J. Pepine

15
Usefulness of PY 108-068, A New Calcium Channel Blocker, for Angina Pectoris.
Michael de Buitleir, Shirley Krikler, and Dennis M. Krikler

20
Echocardiographic Evaluation of Left Ventricular Function During Coronary Artery Angioplasty.
Mohsin Alam, Fareed Khaja, James Brymer, Mario Marzelli, and Sidney Goldstein

26
Effect of Inflation Pressures on Coronary Angioplasty Balloons.
Avanindra Jain, Linda L. Demer, Albert E. Raizner, and Robert Roberts

29
Transluminal Coronary Angioplasty in the Elderly.
Albert E. Raizner, Robert G. Hust, John M. Lewis, William L. Winters, Jr., John W. Batty, and Robert Roberts

33
Early Prediction of Mortality in Patients with Acute Myocardial Infarction: A Prospective Study of Clinical and Radionuclide Risk Factors.
Lawrence Ong, Stephen Green, Peter Reiser, and John Morrison

39
Comparison of Nicardipine and Propranolol for Chronic Stable Angina Pectoris.
Darryl McGill, William McKenzie, and Michael McCredie

44
Severe Atherosclerotic Coronary Artery Disease, Healed Myocardial Infarction and Chronic Congestive Heart Failure: Analysis of 81 Patients Studied at Necropsy.
Elizabeth M. Ross and William C. Roberts

51
Severe Atherosclerotic Coronary Arterial Narrowing and Chronic Congestive Heart Failure Without Myocardial Infarction: Analysis of 18 Patients Studied at Necropsy.
Elizabeth M. Ross and William C. Roberts

57
De Novo Refractory Ventricular Tachyarrhythmias After Coronary Revascularization.
Eric J. Topol, Bruce B. Lerman, Kenneth L. Baughman, Edward V. Platia, and Lawrence S.C. Griffith

60
Validation of a Computerized QRS Criterion for Estimating Myocardial Infarction Size and Correlation with Quantitative Morphologic Measurements.
Marie J. Cowan, Robert A. Bruce, and Dennis D. Reichenbach

66
Importance of Risk Factors in the Angiographic Progression of Coronary Artery Disease.
Joel S. Raichlen, Bernadine Healy, Stephen C. Achuff, and Thomas A. Pearson

71
Determinants of Abnormal Blood Pressure Response to Exercise in Coronary Artery Disease.
A-Hamid Hakki, Brian M. Munley, Stavros Hadjimiltiades, Marc D. Meissner, and Abdulmassih S. Iskandrian

76
A New Approach for the Enzymatic Estimation of Infarct Size: Serum Peak Creatine Kinase and Time to Peak Creatine Kinase Activity. Minoru Horie, Hirofumi Yasue, Shingo Omote, Akinori Takizawa, Masao Nagao, Shinichiro Nishida, and Jiro Kubota

82
Significance of Precordial ST-Segment Depression in Inferior Acute Myocardial Infarction as Determined by Echocardiography. Luc A. Piérard, Muriel Sprynger, Frédéric Gilis, and Jean Carlier

86
Usefulness of Two-Dimensional Exercise Echocardiography Shortly After Myocardial Infarction. Wybren Jaarsma, Cees A. Visser, Albert J. Funke Kupper, Jan C.J. Res, Machiel J. Van Eenige, and Jan P. Roos

91
The Cardiac Arrhythmia Pilot Study. The CAPS Investigators

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

96
Daily Reproducibility of Electrophysiologic Test Results in Malignant Ventricular Arrhythmia. Federico Lombardi, Joseph Stein, Philip J. Podrid, Thomas B. Graboys, and Bernard Lown

102
Effect of Increased Current, Multiple Pacing Sites and Number of Extrastimuli on Induction of Ventricular Tachycardia. John M. Herre, David E. Mann, Jerry C. Luck, Sharon A. Magro, Sayeed Figali, Timothy Breen, and Christopher R.C. Wyndham

108
Influence of Drive Cycle Length During Programmed Stimulation on Induction of Ventricular Arrhythmias: Analysis of 403 Patients. N.A. Mark Estes III, Hasan Garan, Brian McGovern, and Jeremy N. Ruskin

113
Survivors of Cardiac Arrest: Prevention of Recurrence by Drug Therapy as Predicted by Electrophysiologic Testing or Electrocardiographic Monitoring. Brian T. Skale, William M. Miles, James J. Heger, Douglas P. Zipes, and Eric N. Prystowsky

120
Dysrhythmias After Direct-Current Cardioversion. Bernd Waldecker, Pedro Brugada, Manfred Zehender, William Stevenson, and Hein J.J. Wellens

124
Amiodarone for Refractory Atrial Fibrillation. Robert L. Gold, Charles I. Haffajee, George Charos, Kathy Sloan, Stephen Baker, and Joseph S. Alpert

128
Relation of Serum Reverse T3 to Amiodarone Antiarrhythmic Efficacy and Toxicity. Nicholas Z. Kerin, Roger D. Blevins, David Benaderet, Kathy Faitel, Regina Jarandilla, Chaim Garfinkel, Sander Klein, and Melvyn Rubenfire

131
Application of the Rosenblueth Hypothesis to Assess Atrioventricular Nodal Behavior. Ming-Lon Young, Grace S. Wolff, Agustin Castellanos, and Henry Gelband

135
Atrial Pacing-Induced Alternating Wenckebach Periodicity and Multilevel Conduction Block in Children. Ming-Lon Young, Henry Gelband, and Grace S. Wolff

142
Application of the Rosenblueth Hypothesis to Assess Cycle Length Effects on the Refractoriness of the Atrioventricular Node. Ming-Lon Young, Grace S. Wolff, Agustin Castellanos, and Henry Gelband

146
Effects of Isoproterenol and Amiodarone and the Role of Exercise in Initiation of Circus Movement Tachycardia in the Accessory Atrioventricular Pathway. Pedro Brugada, Mario Facchini, and Hein J.J. Wellens

150
Importance of Modes of Electrical Termination of Ventricular Tachycardia for the Selection of Implantable Antitachycardia Devices. Bernd Waldecker, Pedro Brugada, Manfred Zehender, William Stevenson, Karel Den Dulk, and Hein J.J. Wellens

156
Reproducibility of Measurements of Ventricular Activation Time Using the Signal-Averaged Frank Vectorcardiogram. A. Robert Denniss, David L. Ross, and John B. Uther

VALVULAR HEART DISEASE

161
Comparative Study of Primary Tissue Valve Failure Between Ionescu-Shiley Pericardial and Hancock Porcine Valves in the Aortic Position. Francisco Nistal, Emilio García-Satué, Edurne Artiñano, Carlos M.G. Durán, and Ignacio Gallo

165
Echo-Phonocardiographic Evaluation of the Björk-Shiley Mitral Prosthesis. Deodato Assanelli, Michele Aquilina, Silvia Marangoni, Gian Luigi Morgagni, and Odoardo Visioli

EXPERIMENTAL STUDIES

171
Transluminal Laser Irradiation of Coronary Arteries in Live Dogs: An Angiographic and Morphologic Study of Acute Effects.
Filippo Crea, George S. Abela, Albert Fenech, Wendie Smith, Carl J. Pepine, and C. Richard Conti

BRIEF REPORTS

175
Factors Influencing Reocclusion After Coronary Thrombolysis for Acute Myocardial Infarction.
Arnold K. Gash, James F. Spann, Sol Sherry, Arthur D. Belber, Blase A. Carabello, Michael T. McDonough, Richard H. Mann, William D. McCann, James H. Gault, Richard D. Gentzler, and Robert L. Kent

177
Demonstration of the "No-Reflow" Phenomenon by Digital Coronary Arteriography.
Eric R. Bates, Mark J. Krell, Edward N. Dean, William W. O'Neill, and Robert A. Vogel

179
Intussusception of a Coronary Artery Associated with Sudden Death in a College Football Player.
William C. Roberts, Marc A. Silver, and Joseph C. Sapala

180
Two-Dimensional Echocardiography in Cardiac Rupture.
Yitzchak Hermoni and Peter J. Engel

182
Unilateral Pulmonary Edema Complicating Acute Myocardial Infarction.
Andre Keren, Dan Tzivoni, Shmuel Gottlieb, Jesaia Benhorin, and Shlomo Stern

183
Usefulness of Atrioventricular Nodal Wenckebach Periodicity in Predicting Sinus Nodal Entrance Block During Atrial Pacing.
Paul Wang, James A. Reiffel, John Zimmerman, Frank Livelli, Jr., Jerry Gliklich, Kevin Ferrick, J. Thomas Bigger, Jr., and Patricia Noethling

185
The First Coronary Angioplasty as Described by Andreas Gruentzig.
J. Willis Hurst

AJC 25 YEARS AGO

188
The AJC in January 1961.
William C. Roberts

190
FROM THE EDITOR

191
LETTERS

CME Test on page 187

INSTRUCTIONS TO AUTHORS on page 194

JANUARY 24, 1986
VOLUME 57 • NUMBER 2

A SYMPOSIUM: CURRENT TRENDS IN DIURETIC THERAPY

JANUARY 31, 1986
VOLUME 57 • NUMBER 3

A SYMPOSIUM: MANAGEMENT OF VENTRICULAR ARRHYTHMIAS IN PATIENTS WITH CONGESTIVE HEART FAILURE

FEBRUARY 1, 1986
VOLUME 57 • NUMBER 4

CORONARY HEART DISEASE

195
Role of Alpha-Adrenergic Coronary Tone in Exercise-Induced Angina Pectoris.
Guy M. Berkenboom, Michel Abramowicz, Pol Vandermoten, and Serge G. Degre

199
Comparison of Risk Factors in Vasospastic Angina Without Significant Fixed Coronary Narrowing to Significant Fixed Coronary Narrowing and No Vasospastic Angina.
Jean-Marie Scholl, Armand Benacerraf, Pierre Ducimetiere, Daniel Chabas, Jacques Brau, Jocelyne Chapelle, and Jean-Loup Thery

203
Diagnostic and Prognostic Implications of Transient Isolated Negative T Waves in Suspected Acute Myocardial Infarction.
Jørgen Granborg, Peer Grande, and Asger Pedersen

208
Survival Rates and Prehospital Delay During Myocardial Infarction Among Black Persons.
Richard S. Cooper, Brian Simmons, Angel Castaner, Rajesh Prasad, Cory Franklin, and Jack Ferlinz

SYSTEMIC HYPERTENSION

212
Diltiazem as Monotherapy for Systemic Hypertension: A Multicenter, Randomized, Placebo-Controlled Trial.
Peter E. Pool, Barry M. Massie, K. Venkataraman, Alan T. Hirsch, Dinesh R. Samant, Shirley C. Seagren, Johnny Gaw, Antone F. Salel, and Julio F. Tubau, *With the assistance of* Carol Vollmer, Steve Walker, *and* M. Lorie Skalland

218
Relation of Blood Pressure Measured in Several Positions to the Subsequent Development of Systemic Hypertension: The Normative Aging Study.
David Sparrow, Bernard Rosner, Pantel S. Vokonas, and Scott T. Weiss

223
Extracellular and Interstitial Fluid Volume in Obesity With and Without Associated Systemic Hypertension.
Jocelyne Raison, Apostolos Achimastos, Risk Asmar, Alain Simon, and Michel Safar

227
Cardiac Function in Alcohol-Associated Systemic Hypertension.
Howard S. Friedman, Balendu C. Vasavada, Abdel M. Malec, Khalid K. Hassan, Ashok Shah, and Salma Siddiqui

232
Left Ventricular Mass and Systolic Performance in Chronic Systemic Hypertension.
Harisios Boudoulas, Demetrios Mantzouratos, Young H. Sohn, and Arnold M. Weissler

CONGESTIVE HEART FAILURE

238
Hemodynamic Changes After Meals and Placebo Treatment in Chronic Congestive Heart Failure.
James W. Cornyn, Barry M. Massie, Donald V. Unverferth, and Carl V. Leier

242
Relative Contribution of Inotropic and Vasodilator Effects to Amrinone-Induced Hemodynamic Improvement in Congestive Heart Failure.
Marvin A. Konstam, Steven R. Cohen, David S. Weiland, Tami T. Martin, Dhirendra Das, Jeffrey M. Isner, and Deeb N. Salem

249
Exercise Ventilation and Pulmonary Artery Wedge Pressure in Chronic Stable Congestive Heart Failure.
Louis I. Fink, John R. Wilson, and Nancy Ferraro

254
Hemodynamic Effects of a New Type III Phosphodiesterase Inhibitor (CI-914) for Congestive Heart Failure.
Syed M. Jafri, Brad S. Burlew, A. David Goldberg, Amy Rogers, and Sidney Goldstein

260
Hemodynamic Factors Limiting the Response to Transdermal Nitroglycerin in Severe Chronic Congestive Heart Failure.
Milton Packer, Norma Medina, Madeline Yushak, and Wai Hung Lee

CONGENITAL HEART DISEASE

268
Importance of (Perimembranous) Ventricular Septal Aneurysm in the Natural History of Isolated Perimembranous Ventricular Septal Defect.
Claudio Ramaciotti, Andre Keren, and Norman H. Silverman

273
Balloon and Blade Atrial Septostomy Facilitated by Two-Dimensional Echocardiography.
Angela E. Lin, Thomas G. Di Sessa, and Roberta G. Williams, *With the technical assistance of* John Leighton, Karen Gross, *and* Ah Lin Wong

278
Valvular Heart Disease (Aortic Regurgitation and Mitral Valve Prolapse) Among Institutionalized Adults with Down's Syndrome.
Samuel Z. Goldhaber, I. Leslie Rubin, Wayne Brown, Neil Robertson, Frances Stubblefield, and Laurence J. Sloss

MISCELLANEOUS TOPICS

282
Noninvasive Evaluation of Suspected Thoracic Aortic Disease by Contrast-Enhanced Computed Tomography.
Richard D. White, Martin J. Lipton, Charles B. Higgins, Michael P. Federle, Anton C. Pogany, Robert K. Kerlan, Jr., Thomas S. Thaxton, and Kevin Turley

291
Hemodynamic Adaptation to Acute Myocardial Contusion Complicating Blunt Chest Injury.
Garnette R. Sutherland, Helen W. Cheung, Ronald L. Holliday, Albert A. Driedger, and William J. Sibbald

299
Anatomy of Human Extrinsic Cardiac Nerves and Ganglia.
Ronald D. Janes, J. Christopher Brandys, David A. Hopkins, David E. Johnstone, David A. Murphy, and J. Andrew Armour

310
Interatrial Shunting in Atrial Septal Aneurysm.
Robert N. Belkin, Robert A. Waugh, and Joseph Kisslo

313
Career Choices of 135 Cardiology Trainees at Duke University Medical Center from 1970 to 1984.
Edward L.C. Pritchett, Galen S. Wagner, Andrew G. Wallace, and Joseph C. Greenfield, Jr.

316
Prediction of Pulmonary Arterial Pressure in Adults by Pulsed Doppler Echocardiography.
Mitsuaki Isobe, Yoshio Yazaki, Fumimaro Takaku, Katsumi Koizumi, Kazuhiro Hara, Hideo Tsuneyoshi, Tetsu Yamaguchi, and Kiyoshi Machii

322
Spectrum of Conditions Initially Suggesting Acute Aortic Dissection but with Negative Aortograms.
Kim A. Eagle, Thomas Quertermous, Gordon A. Kritzer, John B. Newell, Robert Dinsmore, Laura Feldman, and Roman W. DeSanctis

METHODS

327
Studies of Doppler Aortic Flow Velocity During Supine Bicycle Exercise.
Julius M. Gardin, Jay Kozlowski, Ali Dabestani, Marge Murphy, Catherine Kusnick, Alice Allfie, Daniel Russell, and Walter L. Henry

HISTORICAL STUDIES

333
In Memory of Roland Gruentzig and Margaret Anne Thornton Gruentzig.
J. Willis Hurst, Spencer B. King, III, and Linda Green

BRIEF REPORTS

337
Spectrum of Ventricular Pacemaker Exit Block Owing to Hyperkalemia.
Tali T. Bashour

339
Relation Between Nonsustained Atrial Tachycardia and Paroxysmal Atrial Fibrillation.
Eric H. Stern, Demetrio Georgiou, and Paul Schweitzer

340
Tremor Induced by Procainamide.
Ardon Rubinstein and Shaltiel Cabili

341
Synchronized Increasing Train Stimulation for Management of Type I Atrial Flutter.
Michel Bertholet, Francis Hastir, André Kassab, Christophe Dubois, Philippe Marcelle, Claude Chevolet, Claude Derèse, Maurice Fastrez, Jean-Claude Demoulin, and Henri E. Kulbertus

343
Erroneous Discharge from an Implanted Automatic Defibrillator During Supraventricular Tachyarrhythmia Induced Ventricular Fibrillation.
Matthias Manz, Ulrich Gerckens, and Berndt Lüderitz

344
Treatment of Multifocal Atrial Tachycardia with Amiodarone in a Child with Congenital Heart Disease.
Benjamin Zeevi, Michael Berant, Samuel Sclarovsky, and Leonard C. Blieden

347
Provocation of Hyper- and Hypokalemic Sudden Death During Treatment with and Withdrawal of Converting-Enzyme Inhibition in Severe Chronic Congestive Heart Failure.
Milton Packer and Wai Hung Lee

348
Balloon Angioplasty for Congenital and Rheumatic Mitral Stenosis.
Daniel A. Kveselis, Albert P. Rocchini, Robert Beekman, A. Rebecca Snider, Dennis Crowley, Macdonald Dick, and Amnon Rosenthal

350
Comparison of Supine and Left Lateral Decubitus Positions on M-Mode Echocardiographic Findings in Mitral Valve Prolapse by Auscultation.
Myung S. Yoon and Jaok Han

352
Mitral Stenosis: Imaging by Nuclear Magnetic Resonance.
James A. Hill, E. William Akins, Jeffrey R. Fitzsimmons, and C. Richard Conti

355
Late Thrombotic Obstruction of Aortic Porcine Bioprostheses.
Charles H. Croft, L. Maximilian Buja, Manuel Z. Floresca, Pascal Nicod, and Aaron Estrera

356
Systolic and Diastolic Left Ventricular Performance at Rest and During Exercise in Apical Hypertrophic Cardiomyopathy.
Ioannis P. Panidis, Pasquale Nestico, A. Hamid Hakki, Gary S. Mintz, Bernard L. Segal, and Abdulmassih S. Iskandrian

358
Apical Hypertrophic Cardiomyopathy of "Japanese Type" in a Western European Person.
Ercole G. Rovelli, Franco Parenti, and Sergio Devizzi

359
Usefulness of Suprasternal Notch Echocardiography for Diagnosis of Double Aortic Arch.
Marlene A. Enderlein, Norman H. Silverman, Paul Stanger, and Michael A. Heymann

361
Localized Occurrence of Congenital Coronary Artery Fistula in the Southeast United States.
W. Dean Wilcox, M. Joyce Neal, Bruce S. Alpert, Ashby B. Taylor, and Kenneth J. Dooley

363
Echocardiographic Anatomy of the Eustachian Valve.
Marian C. Limacher, Howard P. Gutgesell, G. Wesley Vick, Mark H. Cohen, and James H. Huhta

365
Sudden Death in Infancy Associated with Origin of Both Left Main and Right Coronary Arteries from a Common Ostium Above the Left Sinus of Valsalva.
Charles W. Barth III, Michael Bray, and William C. Roberts,

366
Identification of Anomalous Origin of the Right Coronary Artery from Pulmonary Trunk by Doppler Color Flow Mapping.
Rupa M. Shah, Navin C. Nanda, Ming C. Hsiung, Sally Moos, and David Roitman

368
Sinus Venosus Atrial Septal Defect and Pacemaker Requirement in a Family.
Frederick W. Arensman, John P. Boineau, Ian C. Balfour, David B. Flannery, and H. Victor Moore

369
Noninvasive Assessment of Pulmonary Valve Stenosis, Aortic Valve Stenosis and Coarctation of the Aorta in Critically Ill Neonates.
Donald J. Hagler, A. Jamil Tajik, James B. Seward, and Donald G. Ritter

372
Myocardial Infarction Complicating Surgical Repair of Left Coronary-Right Ventricular Fistula in an Adult.
Mareomi Hamada, Haruyoshi Kubo, Hiroshi Matsuoka, Tatsuo Kokubu, Yo Oosuga, and Tadafumi Joh

374
Echocardiographic Findings in the Liver in Total Anomalous Pulmonary Venous Connection.
Stefano Del Torso, Tiow H. Goh, and Alexander W. Venables

376
Embryonal Botryoid Rhabdomyosarcoma of the Mitral Valve.
Rachel Hajar, William C. Roberts, and Gordon M. Folger, Jr.

377
Multiple Saccular Aortic Aneurysms in Nonspecific Aortitis.
Stuart I. Henochowicz, Joseph Lindsay, Jr., Michael J. Furlong, Ann K. Fulenwider, David I. Greenfield, and Elizabeth M. Ross

FROM THE EDITOR

CME Test on page 222

CME Answer Sheet on page 298

INSTRUCTIONS TO AUTHORS on page 346

FEBRUARY 12, 1986
VOLUME 57 • NUMBER 5

A SYMPOSIUM: LIPIDS AND HYPERTENSION IN THE ELDERLY

FEBRUARY 15, 1986
VOLUME 57 • NUMBER 6

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

381
Subthreshold Conditioning Stimuli Prolong Human Ventricular Refractoriness.
John R. Windle, William M. Miles, Douglas P. Zipes, and Eric N. Prystowsky

387
Electrophysiologic Characteristics of Ventricular Tachycardia or Fibrillation in Relation to Age of Myocardial Infarction.
William G. Stevenson, Pedro Brugada, Ivo Kersschot, Bernd Waldecker, Manfred Zehender, Annette Geibel, and Hein J.J. Wellens

392
Concealed Ventricular Premature Complexes in a Population Sample.
Nicholas Z. Kerin, Melvyn Rubenfire, Robert Stoler, and Matthew N. Levy

398
Findirgs on Ambulatory Electrocardiographic Monitoring in Subjects Older Than 80 Years.
Jean-Pierre Kantelip, Evelyne Sage, and Pierre Duchene-Marullaz

VALVULAR HEART DISEASE

403
Importance of the "Atrial Kick" in Determining the Effective Mitral Valve Orifice Area in Mitral Stenosis.
Pascal Nicod, L. David Hillis, Michael D. Winniford, and Brian G. Firth

408
Systolic Anterior Motion of the Mitral Valve After Carpentier Ring Valvuloplasty for Mitral Valve Prolapse.
Mark S. Kreindel, William A. Schiavone, Harry M. Lever, and Delos Cosgrove

413
Contribution of Echocardiography and Immediate Surgery to the Management of Severe Aortic Regurgitation from Active Infective Endocarditis.
Pinhas Sareli, Herman O. Klein, Colin L. Schamroth, Anthony P. Goldman, Manuel J. Antunes, Wendy A. Pocock, and John B. Barlow

419
Aortic Valve Stenosis: Comparison of Patients With to Those Without Chronic Congestive Heart Failure.
Eric Dineen and Bruce N. Brent

CARDIOMYOPATHY

423
Sustained Ventricular Tachycardia in Chronic Chagasic Myocarditis: Electrophysiologic and Pharmacologic Characteristics.
Ivan Mendoza, Joseph Camardo, Federico Moleiro, Agustin Castellanos, Victor Medina, Jose Gomez, Harry Acquatella, Humberto Casal, Francisco Tortoledo, and Juan Puigbo

CONGENITAL HEART DISEASE

428
Continuous-Wave Doppler in Children with Ventricular Septal Defect: Noninvasive Estimation of Interventricular Pressure Gradient.
Daniel J. Murphy, Jr., Achi Ludomirsky, and James C. Huhta

433
Left Atrioventricular Valve After Surgical Repair in Atrioventricular Septal Defect with Separate Valve Orifices ("Ostium Primum Atrial Septal Defect"): An Echo-Doppler Study.
Erik J. Meijboom, Tjark Ebels, Robert H. Anderson, Miek J.M. Schasfoort-van Leeuwen, John E. Deanfield, Anton Eijgelaar, and Jan N. Homan van der Heide

MISCELLANEOUS TOPICS

437
Effect of Magnetic Resonance Imaging on DDD Pacemakers.
Jay A. Erlebacher, Patrick T. Cahill, Frank Pannizzo, and R. James R. Knowles

METHODS

441
Assessment of Prescribed Increases in Physical Activity: Application of a New Method for Microprocessor Analysis of Heart Rate.
John Kurt Mueller, Denis Gossard, Flay R. Adams, Craig Barr Taylor, William L. Haskell, Helena C. Kraemer, David K. Ahn, Kent Burnett, and Robert F. DeBusk

446
Effects of Low- and High-Intensity Home-Based Exercise Training on Functional Capacity in Healthy Middle-Aged Men.
Denis Gossard, William L. Haskell, C. Barr Taylor, J. Kurt Mueller, Flay Rogers, Margaret Chandler, David K. Ahn, Nancy H. Miller, and Robert F. DeBusk

450
Echocardiographic Assessment of Left Ventricular Hypertrophy: Comparison to Necropsy Findings.
Richard B. Devereux, Daniel R. Alonso, Elizabeth M. Lutas, Geoffrey J. Gottlieb, Emilio Campo, Irene Sachs, and Nathaniel Reichek

CONGESTIVE HEART FAILURE

459
Effectiveness of Converting Enzyme Inhibition (Enalapril) for Mild Congestive Heart Failure.
Eckhard P. Kromer, Günter A.J. Riegger, Gerhart Liebau, and Kurt Kochsiek

HISTORICAL STUDIES

463
From Irritable Heart to Mitral Valve Prolapse: World War I, the British Experience and James Mackenzie.
Charles F. Wooley

467
William Dock As I Knew Him.
Samuel Zoneraich

EDITORIALS

471
Monkey Business.
George A. Diamond

475
***Valve Excision Only* Versus *Valve Excision Plus Replacement* for Active Infective Endocarditis Involving the Tricuspid Valve.**
Deborah J. Barbour and William C. Roberts

478
Bacterial Endocarditis Prophylaxis—Tradition or Necessity?
Edward L. Kaplan

479
Could and Should: The Difference in Two Words.
J. Willis Hurst

BRIEF REPORTS

481
Evidence of Abnormal Vasodilator Reserve in Coronary Spasm.
Victor Legrand, G.B. John Mancini, Eric R. Bates, and Robert A. Vogel

483
Ventricular Tachycardia/Fibrillation on the First Day of Medical School.
Stephen C. Vlay

483
Termination of Atrial Flutter During DDD Pacing by Rapid Overdrive Stimulation Using the Implanted Pacemaker Lead System.
Gerd Fröhlig, Semi Sen, Gerd Rettig, Hermann Schieffer, and Ludwig Bette

486
Idiopathic Magnesium Deficiency in Mitral Valve Prolapse.
Leon Cohen, Haim Bitterman, Ehud Grenadier, Arieh Laor, Nitza Lahat, and Abraham Palant

488
Impaired Left Ventricular Systolic and Diastolic Function Without Left Ventricular Dilatation Associated with Papillary Muscle Calcification in Hypertrophic Cardiomyopathy.
Elizabeth M. Ross, Douglas R. Rosing, James C. Laidlaw, Lockhart B. McGuire, Barry M. Maron, and William C. Roberts

490
Aortic Arch Angiography by Retrograde Balloon Occlusion of the Ductus Arteriosus.
Robert N. Vincent and George F. Collins

492
Usefulness of Echocardiography and Radionuclide Ventriculography for Diagnosing Buckling of the Innominate Artery in Children.
Abraham Brand, David Branski, Eitan Kerem, Eva Gross-Kieselstein, and Abraham Abrahamov

494
Two-Dimensional Doppler Echocardiographic Diagnosis of a Traumatic Intracardiac Shunt.
Mark S. Goldfarb, Howard T. Walpole, Jr., Cleland C. Landolt, A. Brian McIntyre, and Joel M. Felner

496
Rupture of the Ascending Aorta During Cocaine Intoxication.
Charles W. Barth III, Michael Bray, and William C. Roberts

497
Ischemic Chest Pain After 5-Fluorouracil Therapy for Cancer.
William P. Baker, Paul Dainer, Wanda M. Lester, Aileen M. Marty, and Timothy P. Blair

498
Congenital Anomalies of Coronary Arteries in Rodents.
José M. Arque, Victoria Cruz, Luis M. Rosado, Valentín Sans-Coma

500
LETTERS

INSTRUCTIONS TO AUTHORS
on page 402

FEBRUARY 26, 1986
VOLUME 57 • NUMBER 7

A SYMPOSIUM: CALCIUM ANTAGONISTS IN HYPERTENSION—FOCUS ON VERAPAMIL

MARCH 1, 1986
VOLUME 57 • NUMBER 8

CORONARY HEART DISEASE

503
Usefulness of Oral Dipyridamole Suspension for Stress Thallium Imaging Without Exercise in the Detection of Coronary Artery Disease.
Shunichi Homma, Ronald J. Callahan, Barbara Ameer, Kenneth A. McKusick, H. William Strauss, Robert D. Okada, and Charles A. Boucher

509
Quantitative Thallium Imaging Findings in Patients with Normal Coronary Angiographic Findings and in Clinically Normal Subjects.
Sanjiv Kaul, John B. Newell, David A. Chesler, Gerald M. Pohost, Robert D. Okada, and Charles A. Boucher

513
Effects of the Limiting Symptom on the Achievement of Maximal Oxygen Consumption in Patients with Coronary Artery Disease.
Joan E. Eldridge, Carol L. Ramsey-Green, and Kenneth F. Hossack

518
Risk Factors for Coronary Artery Disease in Persons Older Than 62 Years in a Long-Term Health Care Facility.
Wilbert S. Aronow, Laurence Starling, Fritzner Etienne, Peter D'Alba, Mildred Edwards, Neung H. Lee, and Rosalina F. Parungao

521
Effect of Beta Blockade on Silent Regional Left Ventricular Wall Motion Abnormalities.
Peter F. Cohn, Edward J. Brown, Jr., Rita Swinford, and Harold L. Atkins

527
Prophylactic Tocainide or Lidocaine in Acute Myocardial Infarction.
Deborah L. Keefe, Sharon Williams, Vilma Torres, David Flowers, and John C. Somberg

532
Prognostic Value of Electrocardiographic Exercise Testing and Noninvasive Assessment of Left Ventricular Ejection Fraction Soon After Acute Myocardial Infarction.
Mark R. Starling, Michael H. Crawford, Rodney L. Henry, Nicholas J. Lembo, Gemma T. Kennedy, and Robert A. O'Rourke

538
Racial Differences in High-Density Lipoprotein Cholesterol and Coronary Heart Disease Incidence in the Usual Care Group of the Multiple Risk Factor Intervention Trial.
Laurence O. Watkins, James D. Neaton, and Lewis H. Kuller, for the MRFIT Research Group

547
Comparison of Postexercise and Transesophageal Atrial Pacing Two-Dimensional Echocardiography for Detection of Coronary Artery Disease.
Sabino Iliceto, Gaetano D'Ambrosio, Margherita Sorino, Antonietta Papa, Antonio Amico, Antonio Ricci, and Paolo Rizzon

554
Comparison of the ST/Heart Rate Slope with the Modified Bruce Exercise Test in the Detection of Coronary Artery Disease.
Barnaby C. Thwaites, Arshed A. Quyyumi, Maurice J. Raphael, Rudolph Canepa-Anson, and Kim M. Fox

557
Usefulness of Self-Efficacy in Predicting Overexertion During Programmed Exercise in Coronary Artery Disease.
Craig K. Ewart, Kerry J. Stewart, Ronald E. Gillilan, Michael H. Kelemen, Steven A. Valenti, John D. Manley, and Mark D. Kelemen

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

563
Tachycardia-Induced Cardiomyopathy: A Reversible Form of Left Ventricular Dysfunction.
Douglas L. Packer, Gust H. Bardy, Seth J. Worley, Mark S. Smith, Frederick R. Cobb, R. Edward Coleman, John J. Gallagher, and Lawrence D. German

571
Observations on the Occurrence of Atrial Fibrillation in Paroxysmal Supraventricular Tachycardia.
Steven F. Roark, Elizabeth A. McCarthy, Kerry L. Lee, and Edward L.C. Pritchett

576
Rate-Dependent Patterns of Modulated Ventricular Parasystole.
József Tenczer and László Littmann

582
Contribution of the Anode to Ventricular Excitation During Bipolar Programmed Electrical Stimulation.
William G. Stevenson, Isaac Wiener, and James N. Weiss

587
Demonstration of Macroreentry and Feasibility of Operative Therapy in the Common Type of Atrial Flutter.
George J. Klein, Gerard M. Guiraudon, Arjun D. Sharma, and Simon Milstein

592
Efficacy and Safety of Oral Cibenzoline for Ventricular Arrhythmias.
Richard C. Klein, Lawrence D. Horwitz, and Nancy Rushforth

598
Mechanisms and Relevance of Arrhythmias Induced by High-Current Programmed Ventricular Stimulation.
Eleanor E. Kennedy, Lynda E. Rosenfeld, Craig A. McPherson, Stephen I. Stark, and William P. Batsford

604
Esophageal Electrocardiography: A New Technology Revives an Old Technique.
Ingela Schnittger, Inez M. Rodriguez, and Roger A. Winkle

SYSTEMIC HYPERTENSION

609
Effects of Diltiazem Hydrochloride on Cardiovascular Response, Platelet Aggregation and Coagulating Activity During Exercise Testing in Systemic Hypertension.
Kazunobu Yamauchi, Hirohiko Furui, Naoki Taniguchi, and Iwao Sotobata

613
Role for Aldosterone in Blood Pressure Regulation of Obese Adolescents.
Albert P. Rocchini, Victor L. Katch, Roger Grekin, Catherine Moorehead, and Judith Anderson

CONGESTIVE HEART FAILURE

619
Bicyclo-Prostaglandin E_2 Metabolite in Congestive Heart Failure and Relation to Vasoconstrictor Neurohumoral Principles.
Christian Punzengruber, Brigitte Stanek, Helmut Sinzinger, and Karl Silberbauer

624
Electrophysiologic Effects of Milrinone in Patients with Congestive Heart Failure.
Richard A. Goldstein, Stephen A. Geraci, Elayne L. Gray, Robert L. Rinkenberger, Anne Hamilton Dougherty, and Gerald V. Naccarelli

VALVULAR HEART DISEASE

629
Long-Term Results of Direct-Current Cardioversion After Open Commissurotomy for Mitral Stenosis.
Shigeo Sato, Yasunaru Kawashima, Hajime Hirose, Susumu Nakano, Hikaru Matsuda, and Ryouta Shirakura

634
Effect of Atrial Fibrillation and Mitral Regurgitation on Calculated Mitral Valve Area in Mitral Stenosis.
Robert J. Bryg, George A. Williams, Arthur J. Labovitz, Umit Aker, and Harold L. Kennedy

639
Identification of Electrocardiographic Criteria for Diagnosis of Right Ventricular Hypertrophy Due to Mitral Stenosis.
Paul M. Butler, Sousin I. Leggett, Catherine M. Howe, Christopher J. Freye, Nancy B. Hindman, and Galen S. Wagner

644
Comparison of Doppler-Derived Pressure Gradient to That Determined at Cardiac Catheterization in Adults with Aortic Valve Stenosis: Implications for Management.
Mark Yeager, Paul G. Yock, and Richard L. Popp

649
Angina Pectoris and Coronary Artery Disease in Isolated, Severe Aortic Regurgitation.
Rameshwar Pathak, Vellore T. Padmanabhan, Anthony J. Tortolani, Lawrence Y. Ong, Michael H. Hall, and Roy A. Pizzarello

MISCELLANEOUS TOPICS

652
Usefulness of Right Ventricular Diastolic Collapse in Diagnosing Cardiac Tamponade and Comparison to Pulsus Paradoxus.
Sanjay Singh, L. Samuel Wann, H. Sidney Klopfenstein, Arthur Hartz, and Harold L. Brooks

657
Platelet Hyperaggregability in Patients with Chest Pain and Angiographically Normal Coronary Arteries.
Melvyn Rubenfire, Roger D. Blevins, Marion Barnhart, Susan Housholder, Nancy Selik, and Eberhard F. Mammen

CARDIOVASCULAR PHARMACOLOGY

661
Effect of Digoxin on the Electrocardiogram at Rest and During Exercise in Healthy Subjects.
Kerstin Sundqvist, Jan-Henrik Atterhög, and Tomas Jogestrand

666
Amiodarone-Associated Changes in Human Neutrophils.
Pitambar Somani, Verne A. Simon, Peter N. Temesy-Armos, Susan A. Gross, and Liberato J.A. Didio

673
A Mechanism for the Nitroglycerin-Induced Downward Shift of the Left Ventricular Diastolic Pressure-Diameter Relation.
Iris Kingma, Otto A. Smiseth, Israel Belenkie, Merril L. Knudtson, Rosalind P.R. MacDonald, John V. Tyberg, and Eldon R. Smith

678
Hemodynamic Properties of Bucindolol, a Beta-Adrenoreceptor Blocking Drug with Vasodilator Activity.
Nicholas Bett, Lawrence Dryburgh, Christine Boyle, and Carmel Hawley

BRIEF REPORTS

682
Safety and Efficacy of Percutaneous Entry of the Brachial Artery Versus Cutdown and Arteriotomy for Left Sided Cardiac Catheterization.
Marc Cohen, K. Peter Rentrop, and Barry M. Cohen, *With the statistical assistance of* James Holt

684
Transluminal Catheter Reperfusion: A New Technique to Reestablish Blood Flow After Coronary Occlusion During Percutaneous Transluminal Coronary Angioplasty.
Tomoaki Hinohara, John B. Simpson, Harry R. Phillips, Victor S. Behar, Robert H. Peter, Yihong Kong, Eric B. Carlson, and Richard S. Stack

687
Acute Coronary Occlusion with Exercise Testing After Initially Successful Coronary Angioplasty for Acute Myocardial Infarction.
Thomas W. Nygaard, George A. Beller, Robert M. Mentzer, Robert S. Gibson, Carol M. Moeller, and Lawrence R. Burwell

689
Rheumatoid Arthritis and Coronary Arteritis.
Pamela B. Morris, Michael J. Imber, James A. Heinsimer, Mark A. Hlatky, and Keith A. Reimer

690
Acute Myocardial Infarction in Buerger's Disease.
Hiroshi Ohno, Yasuo Matsuda, Kiyoshi Takashiba, Yoshio Hamada, Hironori Ebihara, and Eiji Hyakuna

692
Detection of Diastolic Atrioventricular Valvular Regurgitation by Pulsed Doppler Echocardiography and Its Association with Complete Heart Block.
Roxann Rokey, Daniel J. Murphy, Jr., Anton P. Nielsen, Edward C. Abinader, James C. Huhta, and Miguel A. Quinones

694
Modulation of Atrioventricular Junctional Parasystole: Electrocardiographic Calculation of the Phase-Response Curve.
Giuseppe Oreto, Francesco Luzza, Gaetano Satullo, Francesco Arrigo, and Leo Schamroth

698
Amiodarone-Induced Decrease in Lymphocyte Beta-Adrenergic Receptor Density.
Gregorio Brevetti, Massimo Chiariello, Rocco Leone, Giovanni Clemente, Giovanni Caracciolo, and Mario Condorelli

699
Late Diastolic Whoop in Severe Aortic Regurgitation.
Michihiro Suwa, Yuzo Hirota, Masaya Kino, Yutaka Yoneda, and Keishiro Kawamura

701
Two-Dimensional Echocardiographic Features of Floating Left Atrial Thrombus.
Tsui L. Hsu, Chin C. Chen, Chung Y. Chen, Ming C. Hsiung, and Benjamin N. Chiang

703
Premature Closure of the Foramen Ovale and Congenital Pulmonary Cystic Lymphangiectasis in Aortic Valve Atresia or in Severe Aortic Valve Stenosis.
Philippe L. Moerman, Herwig Van Dijck, Joseph M. Lauweryns, Ephrem Eggermont, and Lucas G. Van Der Hauwaert

706
Increased Quinidine Plasma Concentrations During Administration of Verapamil: A New Quinidine-Verapamil Interaction.
Richard G. Trohman, Daneil M. Estes, Agustin Castellanos, Andres R. Palomo, Robert J. Myerburg, and Kenneth M. Kessler

708
Aberrant Thyroid Gland Attached to Ascending Aorta.
Marc A. Taylor, Michael Bray, and William C. Roberts

AJC 25 YEARS AGO

710
The AJC in March 1961
William C. Roberts

711
FROM THE EDITOR

CME Test on page 546

CME Answer Sheet on page 709

INSTRUCTIONS TO AUTHORS on page 608

MARCH 28, 1986
VOLUME 57 • NUMBER 9

A SYMPOSIUM: GUANFACINE—A NEW CHOICE IN CENTRALLY ACTING ANTIHYPERTENSIVE AGENTS

APRIL 1, 1986
VOLUME 57 • NUMBER 10

CORONARY HEART DISEASE

713
Results of Percutaneous Transluminal Coronary Angioplasty by Multiple Relatively Low Frequency Operators.
Andrew S. Jacob, Augusto D. Pichard, Susan D. Ohnmacht, and Joseph Lindsay, Jr.

717
Safety and Success of the Beginning Percutaneous Transluminal Coronary Angioplasty Program Using the Steerable Guidewire System.
William E. Harston, Spencer Tilley, Richard Rodeheifer, Mervyn B. Forman, and James M. Perry

721
Effect of Beta Blockade with Betaxolol on Left Ventricular Systolic Function in Chronic Stable Angina Pectoris and Left Ventricular Dysfunction.
Martin A. Alpert, Amolak Singh, Richard A. Holmes, John F. Sanfelippo, Greg C. Flaker, Daniel Villarreal, Vaskar Mukerji, and Rebecca J. Morgan

725
Importance of the Distance and Velocity of Electrical Forces in the Diagnosis of Inferior Wall Healed Myocardial Infarction: A Vectorcardiographic Study.
Robert A. Warner, Norma E. Hill, Ian Rowlandson, Sakti Mookherjee, and Harold Smulyan

729
Incidence, Timing and Prognostic Value of Left Ventricular Aneurysm Formation After Myocardial Infarction: A Prospective, Serial Echocardiographic Study of 158 Patients.
Cees A. Visser, Gerard Kan, Richard S. Meltzer, Jacques J. Koolen, and Arend J. Dunning, *With the technical assistance of* Marga van Corler *and* Harry de Koning

733
Metoprolol, Nifedipine, and the Combination in Stable Effort Angina Pectoris.
Arto Uusitalo, Matti Arstila, Erling A. Bae, Risto Härkönen, Olavi Keyriläinen, Ulla Rytkönen, P. Mattis Schjelderup-Mathiesen, and Heikki Wendelin

738
Usefulness of Early Exercise Testing After Non-Q-Wave Myocardial Infarction in Predicting Prognosis.
S.T. Benjamin Sia, Peter S. Macdonald, John D. Horowitz, Alan J. Goble, and Austin E. Doyle

745
Sudden Death and Its Relation to QT-Interval Prolongation After Acute Myocardial Infarction: Two-Year Follow-Up.
Kevin Wheelan, Jhulan Mukharji, Robert E. Rude, W. Kenneth Poole, Nancy Gustafson, Lewis J. Thomas, Jr., H. William Strauss, Allan S. Jaffe, James E. Muller, Robert Roberts, Charles H. Croft, Eugene R. Passamani, James T. Willerson, and the MILIS Study Group

751
Phase II Intensive Monitored Cardiac Rehabilitation for Coronary Artery Disease and Coronary Risk Factors—A Six-Session Protocol.
Barbara Johnston Fletcher, John Thiel, and Gerald F. Fletcher

757
Evaluation of Left Ventricular Thrombi by Contrast-Enhanced Computed Tomography and Two-Dimensional Echocardiography.
James A. Goldstein, Nelson B. Schiller, Martin J. Lipton, Thomas A. Ports, and Bruce H. Brundage

761
Comparison of Macroscopic, Postmortem, Angiographic and Two-Dimensional Echocardiographic Findings of Coronary Aneurysms in Children with Kawasaki Disease.
Takako Fujiwara, Hisayoshi Fujiwara, Tadashi Ueda, Kenya Nishioka, and Yoshihiro Hamashima

765
Dipyridamole-Echocardiography Test in Patients with Exercise-Induced ST-Segment Elevation.
Eugenio Picano, Michele Masini, Alessandro Distante, Ignazio Simonetti, Fabio Lattanzi, Mario Marzilli, and Antonio L'Abbate

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

769
Dose-Response Range of Encainide for Benign and Potentially Lethal Ventricular Arrhythmias.
Joel Morganroth, Peter Pool, Ronald Miller, Ping-Hwa Hsu, Ian Lee, and Donna M. Clark *for the* Encainide Research Group

775
Acute Electrophysiologic Effects of Pirmenol in Normal Subjects and in Patients with Wolff-Parkinson-White Syndrome.
James E. Brown, Raymond Yee, and George J. Klein

782
Comparison of Exercise and Ajmaline Tests with Electrophysiologic Study in the Wolff-Parkinson-White Syndrome.
Yemima Eshchar, Bernard Belhassen, and Shlomo Laniado

787
Use of Flecainide Acetate for Refractory Junctional Tachycardias in Children with the Wolff-Parkinson-White Syndrome.
David E. Ward, Sue Jones, and Elliot A. Shinebourne

791
Optimal Mode of Transesophageal Atrial Pacing.
Masao Nishimura, Takakazu Katoh, Sotaro Hanai, and Yoshio Watanabe

797
Prevalence of Retrograde Conduction in Heart Block After DDD Pacemaker Implantation.
Rob Van Mechelen, Jaap Ruiter, Yves Vanderkerckhove, Hans De Boer, and Frans Hagemeijer

VALVULAR HEART DISEASE

802
Frequency of Angiographically Significant Coronary Arterial Narrowing in Mitral Stenosis.
Charles J. Mattina, Stephen J. Green, Anthony J. Tortolani, Vellore T. Padmanabhan, Lawrence Y. Ong, Michael H. Hall, and Roy A. Pizzarello

806
Pulsed Doppler Patterns of Left Atrial Flow in Mitral Regurgitation.
Guillem Pons-Llado, Francesc Carreras-Costa, Manel Ballester-Rodes, Josep M. Auge-Sampera, Carles Crexells-Figueras, and Antoni Oriol-Palou

811
Detection and Evaluation of Tricuspid Regurgitation Using a Real-Time, Two-Dimensional, Color-Coded Doppler Flow Imaging System: Comparison with Contrast Two-Dimensional Echocardiography and Right Ventriculography.
Yukisono Suzuki, Hirofumi Kambara, Kazunori Kadota, Shunichi Tamaki, Ario Yamazato, Ryuji Nohara, Genta Osakada, and Chuichi Kawai, *With the technical assistance of* Shigeru Kubo *and* Takanori Karaguchi

CARDIOMYOPATHY

816
Extent of Myocardial Fibrosis and Cellular Hypertrophy in Dilated Cardiomyopathy.
Donald V. Unverferth, Peter B. Baker, Steven E. Swift, Roger Chaffee, Julie K. Fetters, Barry F. Uretsky, Mark E. Thompson, and Carl V. Leier

CONGENITAL HEART DISEASE

821
Maturation of Pulmonary Input Impedance Spectrum in Infants and Children with Ventricular Septal Defect.
Carol L. Lucas, Norean F. Radke, Benson R. Wilcox, G. William Henry, and Blair A. Keagy

828
Balloon Dilation Angioplasty for Coarctation of the Aorta.
Hugh D. Allen, Gerald R. Marx, Theron W. Ovitt, and Stanley J. Goldberg

833
Pulmonary Vascular Bed in Children with Complete Atrioventricular Septal Defect: Relation Between Structural and Hemodynamic Abnormalities.
Sheila G. Haworth

840
Frequency of Various Congenital Heart Diseases in Chinese Adults: Analysis of 926 Consecutive Patients Over 13 Years of Age.
Wen-Pin Lien, Jin-Jer Chen, Jyh-Hong Chen, Jiunn-Lee Lin, Yen-Yaw Hsieh, Teh-Lu Wu, Shu-Hsun Chu, and Chi-Ren Hung

845
Pulsed Doppler Flow Characteristics of Ductus Arteriosus in Infants with Associated Congenital Anomalies of the Heart or Great Arteries.
Jean L. Cloez, Karl Isaaz, and Claude Pernot

MISCELLANEOUS TOPICS

853
Systemic Vasoconstrictor Effects of Oxygen Administration in Obliterative Pulmonary Vascular Disorders.
Milton Packer, Wai Hung Lee, Norma Medina, and Madeline Yushak

859
Comparison of Doppler-Determined Elevated Pulmonary Arterial Pressure with Pressure Measured at Cardiac Catheterization.
Rafael Martin-Duran, Mariano Larman, Antonio Trugeda, Jose A. Vazquez De Prada, Javier Ruano, Alfonso Torres, Alvaro Figueroa, Antonio Pajaron, and Francisco Nistal

EXPERIMENTAL STUDIES

864
Improved In Vivo Magnetic Resonance Imaging of Acute Myocardial Infarction After Intravenous Paramagnetic Contrast Agent Administration.
Roger B. Rehr, Ronald M. Peshock, Craig R. Malloy, Andrew M. Keller, Robert W. Parkey, L. Maximillian Buja, Ray L. Nunnally, and James T. Willerson

EDITORIALS

869
Percutaneous Transluminal Coronary Angioplasty: View of a Single Relatively High Frequency Operator.
Geoffrey O. Hartzler

873
Percutaneous Coronary Angioplasty: Influence of Operator Experience on Results.
Gary S. Roubin, John S. Douglas, Jr., and Spencer B. King, III

BRIEF REPORTS

875
Total Proximal Left Main and Right Coronary Artery Occlusion with Survival.
James L. Vacek, W. Ross Davis, and Michael R. Lewis

876
The Holter Electrogram as an Occasional Alternative to Electrophysiologic Study.
Igor Singer and Philip R. Reid

878
Effect of Hypertonic Sodium Bicarbonate on Encainide Overdose.
Paul R. Pentel, Steven R. Goldsmith, David M. Salerno, Stanley A. Nasraway, and David W. Plummer

880
Unipolar Pacer Artifacts Induced Failure of an Automatic Implantable Cardioverter/Defibrillator to Detect Ventricular Fibrillation.
Soo G. Kim, Seymour Furman, Lawrence E. Waspe, Richard Brodman, and John D. Fisher

881
Prevention of Ventricular Tachycardia Induction by Introduction of a Second Extrastimulus.
Scott M. Miller, Barbara J. Deal, Daniel Scagliotti, Darrel Prechel, and Jose L. Gallastegui

882
Polymorphic Ventricular Tachycardia Secondary to Hypothyroidism.
Richard A. Pechter and Larry A. Osborn

884
Subvalvular Mitral Calcium as a Cause of Surgically Correctable Ventricular Tachycardia.
Raymond P. Kelly, Dennis L. Kuchar, and Charles W. Thorburn

886
Temporary Balloon Occlusion of the Inferior Vena Cava for Immediate Reversal of Acute Pulmonary Edema.
Richard S. Stack, Robert K. Stack, Kenneth G. Morris, Robert P. Bauman, and Neal Shadoff

889
Long-Term Follow-Up of Transvenous Cardiac Pacing in Children.
Michael L. Epstein, Daniel G. Knauf, and James A. Alexander

AJC 25 YEARS AGO

891
The AJC in April 1961.
William C. Roberts

892
FROM THE EDITOR

894
LETTERS

CME Test on page 852

INSTRUCTIONS TO AUTHORS on page 888

APRIL 15, 1986
VOLUME 57 • NUMBER 11

CORONARY HEART DISEASE

899
Comparison of Verapamil and Propranolol Therapy for Angina Pectoris at Rest: A Randomized, Multiple-Crossover, Controlled Trial in the Coronary Care Unit.
Oberdan Parodi, Ignazio Simonetti, Claudio Michelassi, Clara Carpeggiani, Andrea Biagini, Antonio L'Abbate, and Attilio Maseri

907
Does Placebo Improve Indexes of Effort-Induced Myocardial Ischemia? An Objective Study in 150 Patients with Chronic Stable Angina Pectoris.
Nardev Singh Khurmi, Michael J. Bowles, Ravinder S. Kohli, and Edward B. Raftery

912
Effects of Indomethacin on Coronary Hemodynamics, Myocardial Metabolism and Anginal Threshold in Coronary Artery Disease.
Ivan Pacold, Ming H. Hwang, Christine E. Lawless, Peter Diamond, Patrick J. Scanlon, and Henry S. Loeb

916
Noninvasive Detection of Coronary Artery Patency Using Continuous ST-Segment Monitoring.
Mitchell W. Krucoff, Curtis E. Green, Lowell F. Satler, Frederick C. Miller, Randolph S. Pallas, Kenneth M. Kent, Albert A. Del Negro, David L. Pearle, Ross D. Fletcher, and Charles E. Rackley

923
Reliability of Q-Wave Formation and QRS Score in Predicting Regional and Global Left Ventricular Performance in Acute Myocardial Infarction with Successful Reperfusion.
Frank L. Mikell, John Petrovich, Michael C. Snyder, George J. Taylor, H. Weston Moses, James T. Dove, John E. Batchelder, Joel A. Schneider, and Harry A. Wellons, Jr.

927
Rate of Left Ventricular Functional Recovery by Radionuclide Angiography After Exercise in Coronary Artery Disease.
Ricky M. Schneider, William S. Weintraub, Lloyd W. Klein, Paul A. Seelaus, Jai B. Agarwal, and Richard H. Helfant

933
Effectiveness of Mevinolin on Plasma Lipoprotein Concentrations in Type II Hyperlipoproteinemia.
Jeffrey M. Hoeg, Martha B. Maher, Loren A. Zech, Kent R. Bailey, Richard E. Gregg, Karl J. Lackner, Silvia S. Fojo, Michael A. Anchors, Marina Bojanovski, Dennis L. Sprecher, and H. Bryan Brewer

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

941
Clinical Electrophysiology, Efficacy and Safety of Chronic Oral Cibenzoline Therapy in Refractory Ventricular Tachycardia.
Stephen T. Rothbart and Sanjeev Saksena

947
Ethmozine for Ventricular Premature Complexes.
Kathleen Gear, Frank I. Marcus, Shoei K. Huang, Paul E. Fenster, Christopher Appleton, Virginia Moeller, Gerri Renaud, and Ruth Serokman

950
Is There a Universal Antitachycardia Pacing Mode?
Karel den Dulk, Ivo E. Kersschot, Pedro Brugada, and Hein J.J. Wellens

956
Serum Magnesium Levels in Symptomatic Atrial Fibrillation and Their Relation to Rhythm Control by Intravenous Digoxin.
Charles DeCarli, Gary Sprouse, and John C. LaRosa

960
Measurement of the AH and HV Interval and His Bundle Duration: Interobserver and Intraobserver Variation.
John H. McAnulty, W. Paul Nichol, Cynthia Morris, Linda Nichol, and Shahbudin H. Rahimtoola

SYSTEMIC HYPERTENSION

965
Atenolol Plus Nifedipine for Mild to Moderate Systemic Hypertension After Fixed Doses of Either Agent Alone.
Andre R. Daniels and Lionel H. Opie

MISCELLANEOUS TOPICS

971
Echocardiographic Findings in Pheochromocytoma.
Clarence Shub, Luis Cueto-Garcia, Sheldon G. Sheps, Duane M. Ilstrup, and A. Jamil Tajik

METHODS

976
Intraaortic Balloon Pumping 1967 Through 1982: Analysis of Complications in 733 Patients.
Adrian Kantrowitz, Tarik Wasfie, Paul S. Freed, Melvyn Rubenfire, Waldemar Wajszczuk, and M. Anthony Schork

CARDIOVASCULAR PHARMACOLOGY

984
Effects of Intracoronary Injection of Acetylcholine on Coronary Arterial Diameter.
Yutaka Horio, Hirofumi Yasue, Manabu Rokutanda, Natsuki Nakamura, Hisao Ogawa, Kyoji Takaoka, Koshi Matsuyama, and Tadashi Kimura

EDITORIALS

990
Laser Angioplasty and Cardiovascular Disease.
James S. Forrester, Frank Litvack, and Warren S. Grundfest

992
Beta-Adrenergic Blockade in Unstable Angina Pectoris.
Bramah N. Singh and Koonlawee Nademanee

BRIEF REPORTS

995
Left Thoracic Sympathectomy for Treatment of Refractory Reentrant Tachycardia in Concealed Wolff-Parkinson-White Syndrome.
Toshio Mitsui, Iwao Yamaguchi, Tadashi Koishizawa, Yasushi Terada, Keisuke Kuga, and Motokazu Hori

997
Ventricular Dysrhythmias Associated with Congenital Left Ventricular Aneurysms.
Christopher L. Fellows, Gust H. Bardy, Tom D. Ivey, Jeffrey A. Werner, John J. Draheim, and H. Leon Greene

1000
Coronary Spasm as Viewed by Wilson and Johnston in 1941.
J. Willis Hurst

1002
Wilhelm His, Sr.'s Finding of Johann Sebastian Bach.
Jeffrey F. Peipert and Charles S. Roberts

1003
LETTERS

BOOKS RECEIVED on page 940

INSTRUCTIONS TO AUTHORS on page 964

APRIL 25, 1986
VOLUME 57 • NUMBER 12

A SYMPOSIUM: CLINICAL APPLICATIONS OF NONSELECTIVE BETA BLOCKERS

MAY 1, 1986
VOLUME 57 • NUMBER 13

CORONARY HEART DISEASE

1005
Direct Effects of Smoking on the Heart: Silent Ischemic Disturbances of Coronary Flow.
John E. Deanfield, Michael J. Shea, Richard A. Wilson, Peter Horlock, Christian M. de Landsheere, and Andrew P. Selwyn

1010
Active Transient Myocardial Ischemia During Daily Life in Asymptomatic Patients with Positive Exercise Tests and Coronary Artery Disease.
Stephen Campbell, Joan Barry, George S. Rebecca, Michael B. Rocco, Elizabeth G. Nabel, Richard R. Wayne, and Andrew P. Selwyn

1017
Cardiac Arrest Treated with a New Automatic External Defibrillator by Out-of-Hospital First Responders.
W. Douglas Weaver, Michael K. Copass, Deborah L. Hill, Carol Fahrenbruch, Alfred P. Hallstrom, and Leonard A. Cobb

1022
Comparison of Nifedipine Alone with Propranolol Alone for Stable Angina Pectoris Including Hemodynamics at Rest and During Exercise.
Michael B. Higginbotham, Kenneth G. Morris, R. Edward Coleman, and Frederick R. Cobb

1029
Effects of Nifedipine on Left Ventricular Performance in Unstable Angina Pectoris During a Follow-Up of 48 Hours.
Ernst E. Van Der Wall, H.J. Jurn Kerkkamp, Maarten L. Simoons, Peter P. Van Rijk, Johan H.C. Reiber, Nicolaas Bom, Jacobus C. Lubsen, and Kong I. Lie

1034
Risk of Myocardium Adjacent to Infarcted Myocardium: Electrocardiographic, Metabolic and Scintigraphic Evidence Within the First Week of Acute Myocardial Infarction.
Jaime Figueras, Jaime Candell, Juan Cinca, Rosa Segura, Domingo Ortega, Juan Angel, and Jorge Rius

1041
Cardiac Cinefluoroscopy as an Inexpensive Aid in the Diagnosis of Coronary Artery Disease.
Robert Detrano, Ernesto E. Salcedo, Robert E. Hobbs, and John Yiannikas

1047
Ratio of ST-Segment Depression in Lead V_2 to ST-Segment Elevation in Lead aVF in Evolving Inferior Acute Myocardial Infarction: An Aid to the Early Recognition of Right Ventricular Ischemia.
Allan S. Lew, Pierre Laramee, Prediman K. Shah, Jamshid Maddahi, Thomas Peter, and William Ganz

1052
Impaired Left Ventricular Function in Acute Myocardial Infarction Assessed by Doppler Measurement of Ascending Aortic Blood Velocity and Maximum Acceleration.
Nawzer Mehta and David E. Bennett

1059
Magnetic Resonance Imaging During Acute Myocardial Infarction.
Donald L. Johnston, Randall C. Thompson, Peter Liu, Robert E. Dinsmore, Gary L. Wismer, Sanjay Saini, Sanjiv Kaul, Bruce R. Rosen, Thomas J. Brady, and Robert D. Okada, *With the technical assistance of* Paul A. Beaulieu

1066
Usefulness of QTc Interval on the Discharge Electrocardiogram for Predicting Survival After Acute Myocardial Infarction.
Sinikka Pohjola-Sintonen, Pentti Siltanen, and Jaason Haapakoski

1069
Percutaneous Transluminal Coronary Angioplasty in Evolving Acute Myocardial Infarction.
Xavier E. Prida, J. Patrick Holland, Robert L. Feldman, James A. Hill, Robert G. MacDonald, C. Richard Conti, and Carl J. Pepine

1075
Risk Factors, Exercise Fitness and Electrocardiographic Response to Exercise in 12,866 Men at High Risk of Symptomatic Coronary Heart Disease.
Richard S. Crow, Penti M. Rautaharju, Ronald J. Prineas, John E. Connett, Curt Furberg, Steve Broste, and Jeremiah Stamler, *for the* Multiple Risk Factor Intervention Trial Research Group

1083
Assessment of Regional Myocardial Perfusion with Thallium Imaging During Transient Left Anterior Descending Coronary Arterial Occlusion During Angioplasty.
Prescott S. Wiske, Igor Palacios, Peter C. Block, Patrick O'Gara, H. William Strauss, Robert D. Okada, and Charles A. Boucher

1088
Computerized Detection of the Lactate Threshold in Coronary Artery Disease.
Joan E. Eldridge, Richard F. Giansiracusa, Richard H. Jones, and Kenneth F. Hossack

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

1092
Acute and Chronic Effects of Sotalol and Propranolol on Ventricular Repolarization Using Constant-Rate Pacing.
John E. Creamer, Anthony W. Nathan, Alison Shennan, and A. John Camm

1097
Electrophysiologic Profile of Asymptomatic Wolff-Parkinson-White Pattern.
Simon Milstein, Arjun D. Sharma, and George J. Klein

VALVULAR HEART DISEASE

1101
Percutaneous Transarterial Balloon Valvuloplasty for Mitral Valve Stenosis.
Uros U. Babic, Petar Pejcic, Zoran Djurisic, Mihailo Vucinic, and Sreten M. Grujicic

1105
An Improved Index of Left Ventricular Function in Chronic Mitral Regurgitation.
Warren Breisblatt, Allan V.N. Goodyer, Barry L. Zaret, and Charles K. Francis

1109
Effects of Six-Month Afterload Reduction Therapy with Hydralazine in Chronic Aortic Regurgitation.
Joseph Patrick Kleaveland, Nathaniel Reichek, David M. McCarthy, Thelma Chandler, Cheryl Priest, Ali Muhammed, P. Todd Makler, Jr., and John Hirshfeld, Jr.

1117
Amounts of Coronary Arterial Narrowing by Atherosclerotic Plaques in Clinically Isolated Mitral Valve Stenosis: Analysis of 76 Necropsy Patients Older Than 30 Years.
Ronald N. Reis and William C. Roberts

1124
New Guidelines for the Clinical Diagnosis of Mitral Valve Prolapse.
Joseph K. Perloff, John S. Child, and Jesse E. Edwards

CONGENITAL HEART DISEASE

1131
Restrictive Interatrial Communication in Total Anomalous Pulmonary Venous Connection.
Kent E. Ward, Charles E. Mullins, James C. Huhta, Michael R. Nihill, Dan G. McNamara, and Denton A. Cooley

1137
Electrophysiologic Cardiac Function Before and After Surgery in Children with Atrioventricular Canal.
Anne Fournier, Ming-Lon Young, Otto L. Garcia, Dolores F. Tamer, and Grace S. Wolff

1142
Radionuclide Measurement of Right Ventricular Function in Atrial Septal Defect, Ventricular Septal Defect and Complete Transposition of the Great Arteries.
Edward J. Baker, Chen Shubao, Susan E.M. Clarke, Ignac Fogelman, Michael N. Maisey, and Michael Tynan

1147
Usefulness of Noninvasive Studies for Diagnosis of Right Ventricular Dysplasia.
Dante E. Manyari, Henry J. Duff, William J. Kostuk, Israel Belenkie, George J. Klein, D. George Wyse, L. Brent Mitchell, Derek Boughner, Gerard Guiraudon, and Eldon R. Smith

MISCELLANEOUS TOPICS

1154
Electrocardiographic Criteria for Tricyclic Antidepressant Cardiotoxicity.
James T. Niemann, Howard A. Bessen, Robert J. Rothstein, and Michael M. Laks

CARDIOVASCULAR PHARMACOLOGY

1160
Concentration-Dependent Pharmacologic Properties of Sotalol.
Ted Wang, Robert H. Bergstrand, Katherine A. Thompson, Lyle A. Siddoway, Henry J. Duff, Raymond L. Woosley, and Dan M. Roden

EXPERIMENTAL STUDIES

1167
Influence of the Site of Stimulation on Atrioventricular Nodal Refractory Periods and the Effect of Verapamil.
Hiroyuki Iinuma, Leonard S. Dreifus, Rohn Price, and Eric L. Michelson

EDITORIALS

1175
Reverend Bayes' Silent Majority: An Alternative Factor Affecting Sensitivity and Specificity of Exercise Electrocardiography.
George A. Diamond

1180
Need and Design of a Prospective Study to Assess the Value of Different Strategic Approaches for Management of Ventricular Tachycardia or Fibrillation.
Pedro Brugada and Hein J.J. Wellens

1185
Cardiovascular Dangers of Cocaine Abuse.
Louis L. Cregler and Herbert Mark

1187
Education of the Patient with Cardiac Disease in the Twenty-First Century: An Overview.
Nanette K. Wenger, James I. Cleeman, J. Alan Herd, and Henry D. McIntosh

1190
The UCLA Adult Congenital Heart Disease Program.
Joseph K. Perloff

BRIEF REPORTS

1193
Multiple Aneurysms of the Coronary Arteries as the Cause of Sudden Death in Childhood.
Anton P.M. Gorgels, Simon H.G.J. Braat, Anton E. Becker, Theodoor H.J.M. Raab, Anton G. Boehmer, Anton J. Da Costa, Alfons J.M. Van Der Poel, and Hein J.J. Wellens

1194
Influence Of Cardiopulmonary Bypass on Internal Cardiac Defibrillation.
George J. Klein, Douglas L. Jones, Arjun D. Sharma, Michael J. Kallok, and Gerard M. Guiraudon

1195
Pulsed Doppler Echocardiographic Assessment, Including Use of Aortic Leaflet Separation, of Cardiac Output in Children with Structural Heart Disease.
Gary F. Sholler, Christopher M. Whight, and John M. Celermajer

1198
Echocardiographic Diagnosis of Right Aortic Arch with a Retroesophageal Segment and Left Descending Aorta.
Daniel A. Kveselis, A. Rebecca Snider, Macdonald Dick II, and Albert P. Rocchini

1199
Massive Tricuspid Regurgitation Caused by Intramyocardial Hydatic Cyst.
Francisco García-Fernandez, Esteban López de Sá, Carlos Gamallo, Carlos Pavón, and José Sotillo

1201
Comparison of Thermodilution and Indocyanine Green Dye in Low Cardiac Output or Left-Sided Regurgitation.
L. David Hillis, Brian G. Firth, and Michael D. Winniford

1202
Usefulness of Intracoronary Infusion of Fluorocarbon Distal to Prolonged Coronary Occlusion by Angioplasty Balloon in Dogs.
Charles S. Roberts, H. Vernon Anderson, Anthony A. Carboni, Jr., Alexander G.S. Justicz, Pierre P. Leimgruber, Robert A. Kloner, and Andreas R. Gruentzig

1205
Increased Cardiac Calcium Channels in Hamster Cardiomyopathy.
Mitchell S. Finkel, Eric S. Marks, Randolph E. Patterson, Edith H. Speir, Kenneth Steadman, and Harry R. Keiser

AJC 25 YEARS AGO

1207
The AJC in May 1961.
William C. Roberts

1209
FROM THE EDITOR

1212
LETTERS

CME Test on page 1130

INSTRUCTIONS TO AUTHORS on page 1166

MAY 30, 1986
VOLUME 57 • NUMBER 14

A SYMPOSIUM: NEW DIRECTIONS IN TREATMENT OF PATIENTS AT RISK OF CORONARY ARTERY DISEASE

JUNE 1, 1986
VOLUME 57 • NUMBER 15

CORONARY HEART DISEASE

1213
A Simplified Method to Predict Occurrence of Complete Heart Block During Acute Myocardial Infarction.
Gervasio A. Lamas, James E. Muller, Zoltan G. Turi, Peter H. Stone, John D. Rutherford, Allan S. Jaffe, Daniel S. Raabe, Robert E. Rude, Daniel B. Mark, Robert M. Califf, Herman K. Gold, Thomas Robertson, Eugene R. Passamani, Eugene Braunwald, and the MILIS Study Group

1220
High-Dose, Brief-Duration Intravenous Infusion of Streptokinase in Acute Myocardial Infarction: Description of Effects in the Circulation.
Richard L. Mentzer, Andrei Z. Budzynski, and Sol Sherry

1227
Thrombolytic Therapy Followed by Early Revascularization for Acute Myocardial Infarction.
Joseph M. Sutton, George J. Taylor, Frank L. Mikell, H. Weston Moses, Cynthia Korsmeyer, James T. Dove, John E. Batchelder, Harry A. Wellons, Jr., and Joel A. Schneider

1232
Two-Dimensional Echocardiographic Demonstration of Restoration of Normal Wall Motion After Acute Myocardial Infarction.
Anil Kumar, Shinichi Minagoe, and P. Anthony N. Chandraratna

1236
Hyaluronidase Therapy for Acute Myocardial Infarction: Results of a Randomized, Blinded, Multicenter Trial.
MILIS Study Group

1244
Effect of Early Anticoagulation on the Frequency of Left Ventricular Thrombi After Anterior Wall Acute Myocardial Infarction.
Michael J.E. Davis and Mark A. Ireland

1249
Relation of Size of Transmural Acute Myocardial Infarct to Mode of Death, Interval Between Infarction and Death and Frequency of Coronary Arterial Thrombus.
Jeffrey E. Saffitz, Rurik C. Fredrickson, and William C. Roberts

1255
Predictive Accuracy of Criteria for Chronic Myocardial Infarction in Pacing-Induced Left Bundle Branch Block.
K. Elizabeth Kindwall, Joan P. Brown, and Mark E. Josephson

1261
Late Follow-Up (41 to 102 Months) of Medically Treated Patients with Coronary Artery Spasm and Minor Atherosclerotic Coronary Obstructions.
S. Ben Freedman, David R. Richmond, Megan Alwyn, and David T. Kelly

1264
Multivariate Analysis of the Long-Term Results of Coronary Artery Bypass Grafting Performed During 1976 and 1977.
John D. Rutherford, Ralph M.L. Whitlock, Barry W. McDonald, Brian G. Barratt-Boyes, and Alan R. Kerr

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

1269
Comparison of Coupling Intervals That Induce Clinical and Nonclinical Forms of Ventricular Tachycardia During Programmed Stimulation.
Fred Morady, Lorenzo A. DiCarlo, Jr., Jeffrey M. Baerman, and Michael de Buitleir

1274
Effect of Pharmacologic Autonomic Blockade on Ventriculoatrial Conduction.
Anne Hamilton Dougherty, Robert L. Rinkenberger, and Gerald V. Naccarelli

1280
Modes of Onset ("Initiating Events") for Paroxysmal Atrial Tachycardia in Infants and Children.
Ann Dunnigan, David G. Benditt, and D. Woodrow Benson, Jr.

1288
Long-Term Tolerance of Amiodarone Treatment for Cardiac Arrhythmias.
Warren M. Smith, Wilhelm F. Lubbe, Ralph M. Whitlock, John Mercer, John D. Rutherford, and Anthony H. Roche

1295
External Cardiac Pacing During In-Hospital Cardiac Arrest.
Anne A. Knowlton and Rodney H. Falk

1299
Treatment of Resistant Ventricular Tachycardia with Flecainide Acetate.
Flecainide Ventricular Tachycardia Study Group

1305
Hemodynamic Comparison of Ventricular Pacing, Atrioventricular Sequential Pacing, and Atrial Synchronous Ventricular Pacing Using Radionuclide Ventriculography.
John S. Videen, Shoei K. Huang, Ion D. Bazgan, Eileen Mechling, and Dennis D. Patton

1309
Fragmented Electrograms and Continuous Electrical Activity in Atrial Flutter.
Francisco G. Cosio, Fernando Arribas, Jose Palacios, Juan Tascon, and Maria Lopez-Gil

CONGESTIVE HEART FAILURE

1315
Noninvasive Evaluation of Systolic and Diastolic Function in Severe Congestive Heart Failure Secondary to Coronary Artery Disease or Idiopathic Dilated Cardiomyopathy.
Peter S. Rahko, James A. Shaver, Rosemarie Salerni, and Barry F. Uretsky, *With the technical assistance of* Connie Matesic

1323
Comparative Hemodynamic and Clinical Effects of Long-Term Treatment with Prazosin and Captopril for Severe Chronic Congestive Heart Failure Secondary to Coronary Artery Disease or Idiopathic Dilated Cardiomyopathy.
Milton Packer, Norman Medina, and Madeline Yushak

1328
Comparison of Acute Hemodynamic Response to Dobutamine and Intravenous MDL 17,043 (Enoximone) in Severe Congestive Heart Failure Secondary to Ischemic Cardiomyopathy or Idiopathic Dilated Cardiomyopathy.
Mariell Jessup Likoff, Susan Ulrich, A-Hamid Hakki, and Abdulmassih S. Iskandrian

VALVULAR HEART DISEASE

1335
Effect of Imaging View and Sample Volume Location on Evaluation of Mitral Flow Velocity by Pulsed Doppler Echocardiography.
Julius M. Gardin, Ali Dabestani, Katsu Takenaka, Mary K. Rohan, Margaret Knoll, Daniel Russell, and Walter L. Henry

1340
A Simple Doppler Echocardiographic Method for Estimating Severity of Aortic Regurgitation.
Katsu Takenaka, Ali Dabestani, Julius M. Gardin, Daniel Russell, Sandra Clark, Alice Allfie, and Walter L. Henry

1344
Relation of Still's Murmur, Small Aortic Diameter and High Aortic Velocity.
Marcy L. Schwartz, Stanley J. Goldberg, Neil Wilson, Hugh D. Allen, and Gerald R. Marx

1349
Left Ventricular Diastolic Filling in Valvular Aortic Stenosis.
Steven J. Lavine, William P. Follansbee, David P. Shreiner, and Morteza Amidi

CONGENITAL HEART DISEASE

1356
Transesophageal Study of Recurrent Atrial Tachycardia After Atrial Baffle Procedures for Complete Transposition of the Great Arteries.
Fouad Butto, Ann Dunnigan, Edward D. Overholt, David G. Benditt, and D. Woodrow Benson, Jr.

1363
Identification and Localization of Ventricular Septal Defect by Gated Magnetic Resonance Imaging.
Dominique Didier and Charles B. Higgins

1369
Systolic Direction of Right Ventricular Contrast Trajectories in the Detection of Ventricular Septal Defect with Left-to-Right Shunt.
Alexander Ernst, Ivo Čikeš, and Fedor Čustović

MISCELLANEOUS TOPICS

1374
Physiologic Basis for the Age-Related Decline in Aerobic Work Capacity.
Michael B. Higginbotham, Kenneth G. Morris, R. Sanders Williams, R. Edward Coleman, and Frederick R. Cobb

1380
Prevalence and Significance of Postexercise Hypotension in Apparently Healthy Subjects.
Jerome L. Fleg and Edward G. Lakatta

1385
Comparison of Determinants of Myocardial Oxygen Consumption During Arm and Leg Exercise In Normal Persons.
Gary J. Balady, Edgar C. Schick, Jr., Donald A. Weiner, and Thomas J. Ryan, *With the technical assistance of* Giuseppe Sarno *and* Maria Filancia

METHODS

1388
Performance of Primary and Derived M-Mode Echocardiographic Measurements for Detection of Left Ventricular Hypertrophy in Necropsied Subjects and in Patients with Systemic Hypertension, Mitral Regurgitation and Dilated Cardiomyopathy.
Richard B. Devereux, Paul N. Casale, Paul Kligfield, Richard R. Eisenberg, David Miller, Emilio Campo, and Daniel R. Alonso

CARDIOVASCULAR PHARMACOLOGY

1394
Influence of Beta Blockade and Intrinsic Sympathomimetic Activity on Hemodynamics, Inotropy and Respiration at Rest and During Exercise.
Stig Sundberg and Ariel Gordin

1401
Acute Effect of Systemic Versus Intracoronary Dipyridamole on Coronary Circulation.
Eugenio Marchant, Augusto Pichard, Jose A. Rodriguez, and Pablo Casanegra

EDITORIALS

1405
Dosing the Newer Antiarrhythmic Drugs in Children: Considerations in Pediatric Pharmacology.
Arthur Garson, Jr.

AJC 25 YEARS AGO

1408
The AJC in June 1961.
William C. Roberts

1410
FROM THE EDITOR

CME Test on page 1248

CME Answer Sheet on page 1294

INSTRUCTIONS TO AUTHORS on page 1400

BOOKS RECEIVED on page 1268

VOLUME INDEXES on page 1415